Human/Mouse/Rat NF-L Antibody

Monoclonal Mouse IgG_1 Clone # 985912

Catalog Number: MAB22161

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human NF-L in direct ELISAs. Detects human, mouse, and rat NF-L in Western blots.
Source	Monoclonal Mouse IgG_1 Clone # 985912
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human NF-L Met1-Asp338 Accession # P07196
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

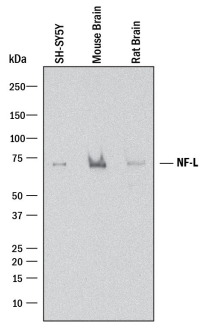
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Dual RNAscope ISH-IHC Compatible	5-25 µg/mL	Formalin-fixed paraffin-embedded tissue sections of human cerebellum.
Western Blot	2 µg/mL	See Below
Immunohistochemistry	5-25 µg/mL	See Below

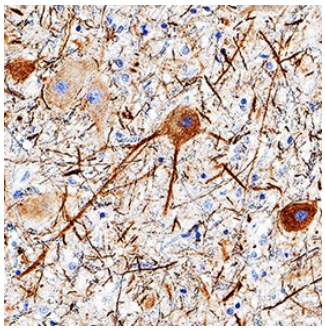
DATA

Western Blot



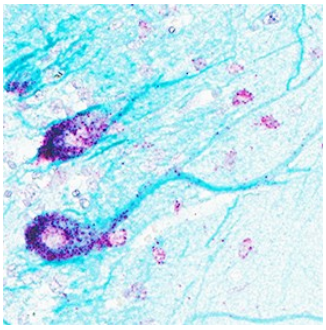
Detection of Human, Mouse, and Rat NF-L by Western Blot. Western blot shows lysates of SH-SY5Y human neuroblastoma cell line, mouse brain tissue, and rat brain tissue. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human NF-L Monoclonal Antibody (Catalog # MAB22161) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for NF-L at approximately 70 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.

Immunohistochemistry



NF-L in Human Brain. NF-L was detected in immersion fixed paraffin-embedded sections of human brain (substantia nigra) using Mouse Anti-Human NF-L Monoclonal Antibody (Catalog # MAB22161) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # Catalog # VC001). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to neurons. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

Dual RNAscope ISH-IHC Compatible



Detection of NEFL mRNA (red) and protein (green/blue) in Human Cerebellum. NEFL mRNA (red) and protein (green/blue) was detected in formalin-fixed paraffin-embedded tissue sections of human cerebellum. ACD's Integrated Co-Detection Workflow was performed using ACD RNAScope Probe Hs-NEFL (Catalog # 468671) and mouse anti-human NEFL monoclonal antibody (R&D Systems Catalog #MAB22161) at 5 µg/mL. Tissue was stained using RNAscope® 2.5 HD Detection Reagents-RED (Catalog # 322360), Mouse IgG VisUCyte HRP Polymer Antibody (Catalog # VC001) and and RNAscope® 2.5 LS Green Accessory Pack (Catalog #322550). Tissue was counterstained with 50% hematoxylin (purple).

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Human/Mouse/Rat NF-L Antibody

Monoclonal Mouse IgG_1 Clone # 985912

Catalog Number: MAB22161

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

NF-L is a 68 kDa light chain cytoskeletal intermediate filament protein that is expressed in neurons. It associates with the 125 kDa NF-M and the 200 kDa NF-H to form neurofilaments.

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